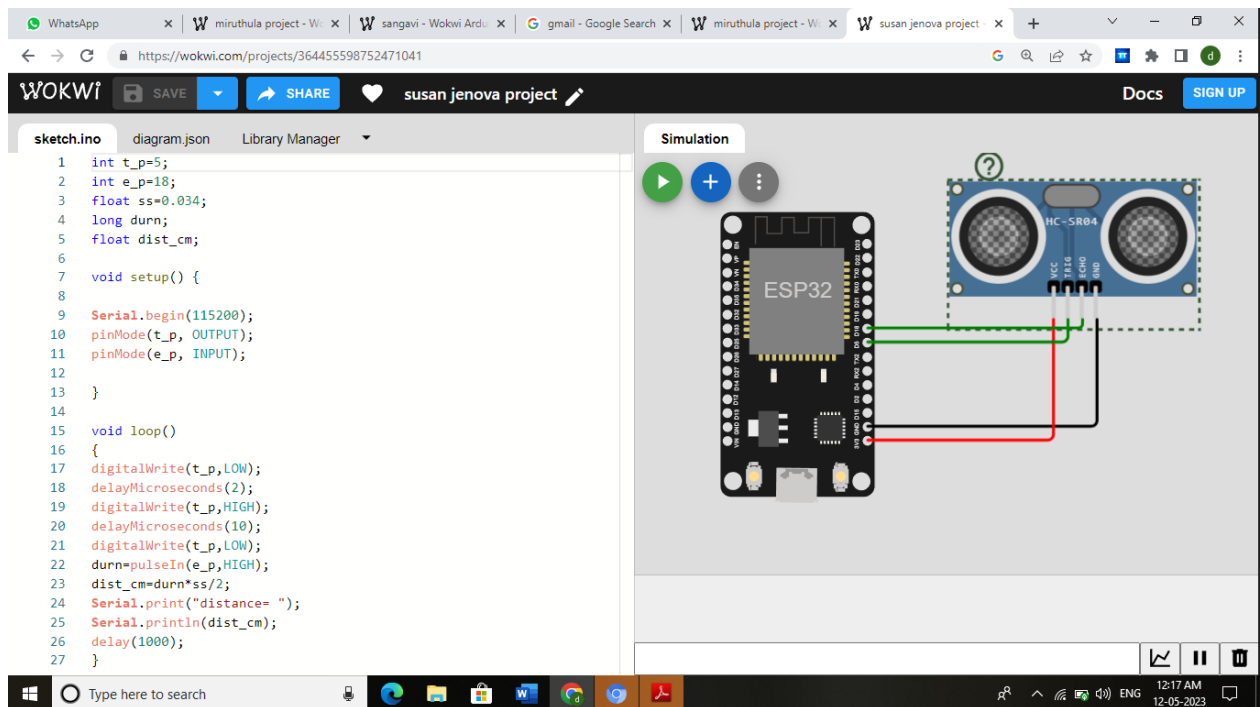


## ASSIGNMENT-3

NAME	Deepak S,Ganeshan.S,Vishnu.R, Sakthi
ASSIGNMENT NAME	Build wowkiproduct, use ultrasonic sensor and detect the distance from the object. Whenever distance is less than 100cms

LINK <https://wokwi.com/projects/364455598752471041>

Type your text



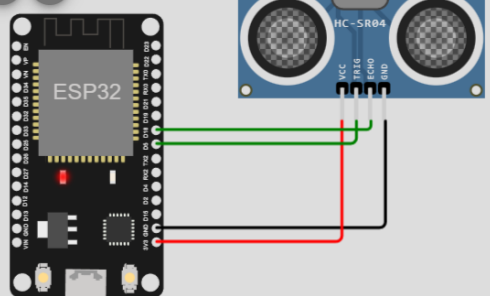
WOKWI | SAVE | SHARE | susan jenova project | Docs | SIGN UP

sketch.ino | diagram.json | Library Manager

```
1 int t_p=5;
2 int e_p=18;
3 float ss=0.034;
4 long durn;
5 float dist_cm;
6
7 void setup() {
8
9   Serial.begin(115200);
10  pinMode(t_p, OUTPUT);
11  pinMode(e_p, INPUT);
12
13 }
14
15 void loop()
16 {
17   digitalWrite(t_p,LOW);
18   delayMicroseconds(2);
19   digitalWrite(t_p,HIGH);
20   delayMicroseconds(10);
21   digitalWrite(t_p,LOW);
22   durn=pulseIn(e_p,HIGH);
23   dist_cm=durn*ss/2;
24   Serial.print("distance= ");
25   Serial.println(dist_cm);
26   delay(1000);
27 }
```

Simulation

00:12.259 59%



distance= 98.94  
distance= 98.94  
distance= 98.94  
distance= 98.94  
distance= 98.94

## PROGRAM:

```
int t_p=5;
int e_p=18;
float ss=0.034;
long durn;
float dist_cm;

void setup() {

    Serial.begin(115200);
    pinMode(t_p, OUTPUT);
    pinMode(e_p, INPUT);

}

void loop()
{
    digitalWrite(t_p,LOW);
    delayMicroseconds(2);
    digitalWrite(t_p,HIGH);
    delayMicroseconds(10);
    digitalWrite(t_p,LOW);
    durn=pulseIn(e_p,HIGH);
```

```
dist_cm=durn*ss/2;  
Serial.print("distance= ");  
Serial.println(dist_cm);  
  delay(1000);  
}
```